Docket No.:   RIC00020          Appln No.:   09/__/67,476                    #9

Title: Intelligent Network and Method for Providing Voice Telephony over ATM
and Closed User Groups
Inventor(s):   Hall et al.

Sheets of Drawings:   ___1___ of ___6___

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FIG. 1

: Intelligent Network and Method for Providing Voice Telephony over ATM
and Closed User Groups
Inventor(s):    Hall et al.

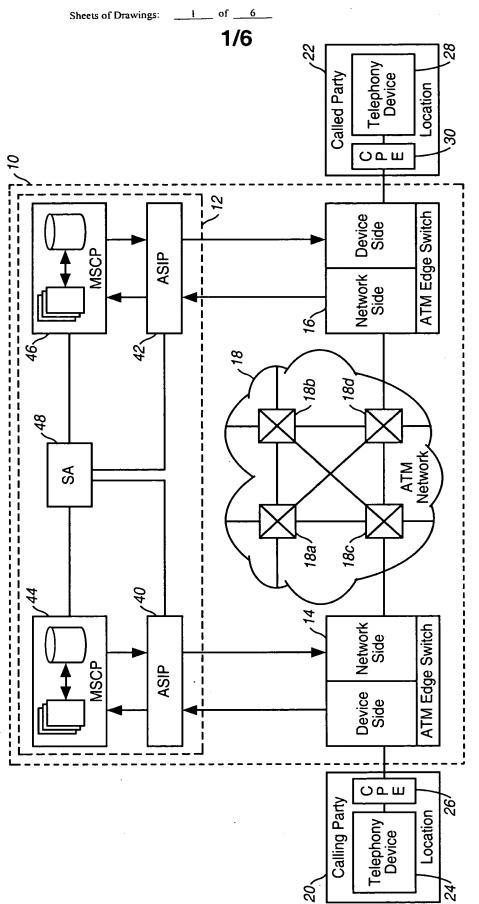Sheets of Drawings:    2    of    6

FIG. 2

Docket No.: RIC00020          Appln No.: 09/767,476

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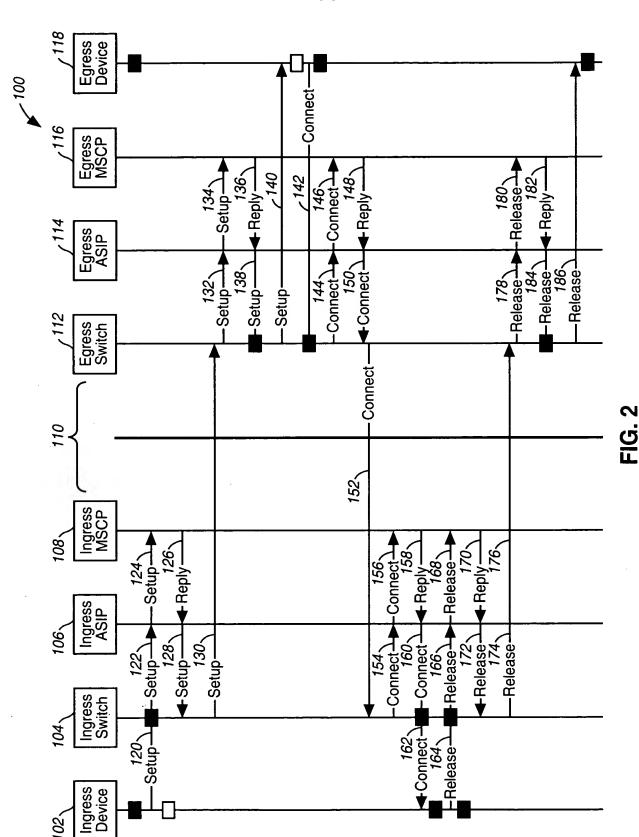Sheets of Drawings:    3    of    6

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**FIG. 3**



**FIG. 4**

Docket No.: RIC00020    Appln No.: 09/767,476
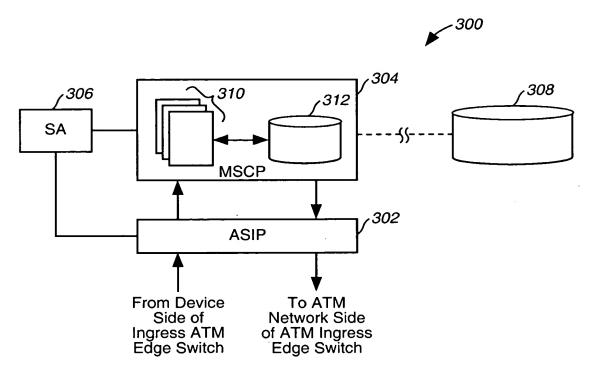
Intelligent Network and Method for Providing Voice  ony over ATM
and Closed User Groups
Inventor(s): Hall et al.

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**Start** — 502

500

**504** Retrieve All CUG Identifiers Associated With The Calling Party

**506** Retrieve All CUG Identifiers Associated With The Called Party

Loop #1

**508** Find A CUG ID That Is Common To Both The Calling Party And Called Party

No Such ID → **512** Examine All Remaining Privilege Sets For CUG Groups For The Calling Party

OK → **510** Do The Privileges For The Calling Party Indicate That The Calling Party Can Make Calls To Other Users In The Same CUG Group?

**522** Do Any Of These Privileges For The Calling Party Indicate That The Calling Party Can Make Calls To Users Outside Of Any CUG Group?

No → **526** The CUG Feature Fails. Reject ATM Call. → Stop

Yes → **524** Examine All Remaining Privilege Sets For CUG Groups For The Called Party

No → **516** Exclude This CUG ID From Any Further Consideration By This Flowchart → Go To Loop #1

Yes → **514** Do The Privileges For The Called Party Indicate That The Called Party Can Receive Calls From Other Users In The Same CUG Group?

No →

Yes → **520** The CUG Feature Succeeds. Complete ATM Call. → Stop

**528** Do Any Of The Privileges For The Called Party Indicate That The Called Party Can Receive Calls From Users Outside Of Any CUG Group?

No → **530** The CUG Feature Fails. Reject ATM Call. → Stop

Yes → **532** The CUG Feature Succeeds. Complete ATM Call. → Stop
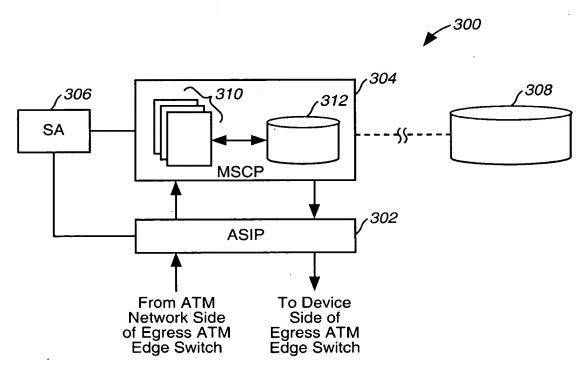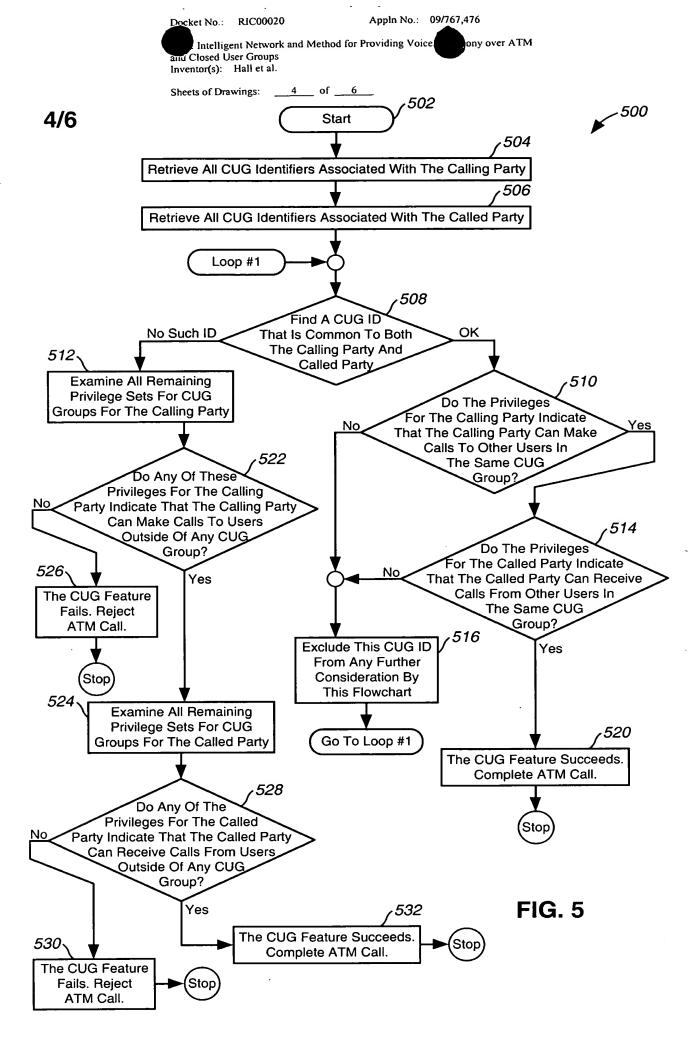
**FIG. 5**

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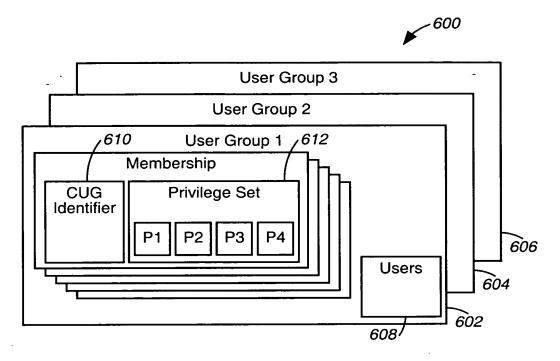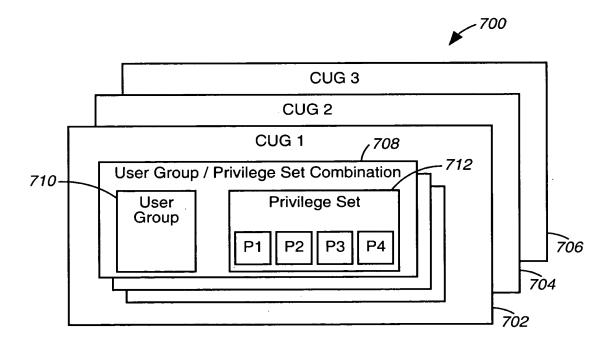| User Group 3 |
|---|

| User Group 2 |
|---|

**User Group 1**

610          612

**Membership**

| CUG Identifier | Privilege Set |
|---|---|
| | P1 \| P2 \| P3 \| P4 |

Users

606
604
608⟋
602

## FIG. 6

⟋700

| CUG 3 |
|---|

| CUG 2 |
|---|

**CUG 1**

708

**User Group / Privilege Set Combination**          712

710

| User Group | Privilege Set |
|---|---|
| | P1 \| P2 \| P3 \| P4 |

706
704
702

## FIG. 7

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800

CUG #1111
806
802

810

User Group: 333

PS(1111)
P1, P2,
P3, P4

812

User Group: 444

PS(1111)
P1, P2,
P3, P4

CUG #2222
808
804

818

User Group: 333

PS(1111)   PS(2222)
P1, P2,    P1, P2,
P3, P4     P3, P4

814

User Group: 888

PS(2222)
P1, P2,
P3, P4

816

User Group: 999

PS(2222)
P1, P2,
P3, P4

FIG. 8